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FORM PTO - 1449

INFORMATION DISCLOSURE STATEMENT

ATTORNEY DOCKET NO.: SNS-013

APPLICANT(S): Berger et al.

SERIAL NO.: 10/733,862

FILING DATE: December 10, 2003 GROUP: 2676

U.S. PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
AC	A1	D377,932	02/11/97	Schena <i>et al.</i>			
	A2	D510,739	10/18/2005	Jones <i>et al.</i>			
	A3	2,475,484	07/05/49	DeNise			
	A4	3,168,203	02/01/65	Gallistel			
	A5	3,263,824	08/02/66	Jones <i>et al.</i>			
	A6	3,449,008	06/10/69	Colechia			
	A7	3,531,868	10/06/70	Stevenson			
	A8	3,618,786	11/09/71	Fick			
	A9	3,637,092	01/01/72	George <i>et al.</i>			
	A10	3,920,972	11/18/75	Corwin <i>et al.</i>			
	A11	3,944,798	03/16/76	Eaton			
	A12	4,062,455	12/13/77	Flatau			
	A13	4,150,803	04/24/79	Fernandez			
	A14	4,216,467	08/05/80	Colston			
	A15	4,302,138	11/24/81	Zarudiansky			
	A16	4,367,532	01/04/83	Crum <i>et al.</i>			
	A17	4,420,808	12/13/83	Diamond <i>et al.</i>			
	A18	4,521,685	06/04/85	Rebman			
	A19	4,604,016	08/05/86	Joyce			
	A20	4,632,341	12/30/86	Repperger <i>et al.</i>			
	A21	4,638,798	01/27/87	Shelden <i>et al.</i>			
	A22	4,653,011	03/24/87	Iwano			
	A23	4,654,648	03/31/87	Herrington <i>et al.</i>			
	A24	4,655,673	04/07/87	Hawkes			
V	A25	4,661,032	04/28/87	Arai			

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AC	A26	4,670,851	06/02/87	Murakami <i>et al.</i>			
	A27	4,676,002	06/30/87	Slocum			
	A28	4,680,519	07/14/87	Chand <i>et al.</i>			
	A29	4,686,522	08/11/87	Hernandez <i>et al.</i>			
	A30	4,703,443	10/27/87	Moriyasu			
	A31	4,729,098	03/01/88	Cline <i>et al.</i>			
	A32	4,769,763	09/06/88	Trieb <i>et al.</i>			
	A33	4,791,934	12/20/88	Brunnett			
	A34	4,795,296	01/03/89	Jau			
	A35	4,800,721	01/31/89	Cemenska <i>et al.</i>			
	A36	4,819,195	04/04/89	Bell <i>et al.</i>			
	A37	4,823,634	04/25/89	Culver			
	A38	4,837,734	06/06/89	Ichikawa <i>et al.</i>			
	A39	4,839,838	06/13/89	LaBiche <i>et al.</i>			
	A40	4,853,874	08/01/89	Iwamoto <i>et al.</i>			
	A41	4,888,538	12/19/89	Dimitrov <i>et al.</i>			
	A42	4,893,981	01/16/90	Yoshinada <i>et al.</i>			
	A43	4,907,970	03/13/90	Meenen, Jr.			
	A44	4,907,973	03/13/90	Hon			
	A45	4,942,538	07/17/90	Yuan <i>et al.</i>			
	A46	4,945,305	07/31/90	Blood			
	A47	4,945,501	07/31/90	Bell <i>et al.</i>			
	A48	4,961,138	10/02/90	Gorniak			
	A49	4,973,111	11/1990	Haacke <i>et al.</i>			
	A50	4,973,215	11/27/90	Karlen <i>et al.</i>			
	A51	4,982,504	01/08/91	Söderberg <i>et al.</i>			
	A52	4,988,981	01/29/91	Zimmerman <i>et al.</i>			
V	A53	5,004,391	04/02/91	Burdea			

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AC	A54	5,007,300	04/16/91	Siva			
	A55	5,018,922	05/28/91	Yoshinada <i>et al.</i>			
	A56	5,019,761	05/28/91	Kraft			
	A57	5,038,089	08/06/91	Szakaly			
	A58	5,040,306	08/20/91	McMurtry <i>et al.</i>			
	A59	5,044,956	09/03/91	Behensky <i>et al.</i>			
	A60	5,053,975	10/01/91	Tsuchihashi <i>et al.</i>			
	A61	5,072,361	12/10/91	Davis <i>et al.</i>			
	A62	5,088,046	02/11/92	McMurtry			
	A63	5,088,055	02/11/92	Oyama			
	A64	5,103,404	04/07/92	McIntosh			
	A65	5,105,367	04/14/92	Tsuchihashi <i>et al.</i>			
	A66	5,116,051	05/26/92	Moncrief <i>et al.</i>			
	A67	5,116,180	05/26/92	Fung <i>et al.</i>			
	A68	5,130,632	07/14/92	Ezawa <i>et al.</i>			
	A69	5,131,844	07/21/92	Marinaccio <i>et al.</i>			
	A70	5,142,931	09/01/92	Menahem			
	A71	5,143,505	09/01/92	Burdea <i>et al.</i>			
	A72	5,184,319	02/02/93	Kramer			
	A73	5,185,561	02/09/93	Good <i>et al.</i>			
	A74	5,189,806	03/02/93	McMurtry <i>et al.</i>			
	A75	5,193,963	03/16/93	McAffee et al			
	A76	5,204,824	04/20/93	Fujimaki			
	A77	5,220,260	06/15/93	Schuler			
	A78	5,223,776	06/29/93	Radke <i>et al.</i>			
	A79	5,237,647	08/17/93	Roberts, <i>et al.</i>			
	A80	5,239,246	08/24/93	Kim			
V	A81	5,255,211	10/19/93	Redmond			

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AC	A82	5,264,768	11/23/93	Gregory et al.			
	A83	5,266,875	11/30/93	Slotine et al.			
	A84	5,333,257	07/26/94	Merrill, et al.			
	A85	5,354,162	10/11/94	Burdea et al.			
	A86	5,382,885	01/17/95	Salcudean et al.			
	A87	5,389,865	02/14/95	Jacobus et al.			
	A88	5,396,265	03/07/95	Ulrich et al.			
	A89	5,414,337	05/09/95	Schuler			
	A90	5,429,140	07/04/95	Burdea et al.			
	A91	5,438,529	08/01/95	Rosenberg et al.			
	A92	5,446,834	08/29/95	Deering			
	A93	5,459,382	10/17/95	Jacobus et al.			
	A94	5,482,051	01/09/96	Reddy et al.			
	A95	5,489,830	02/06/96	Fernandez			
	A96	5,497,452	03/05/96	Shimizu et al.			
	A97	5,506,785	04/1996	Blank et al.			
	A98	5,515,078	05/07/96	Greschler et al.			
	A99	5,555,894	09/17/96	Doyama et al.			
	A100	5,559,412	09/24/96	Schuler			
	A101	5,576,727	11/19/96	Rosenberg et al.			
	A102	5,587,937	12/24/96	Massie et al.			
	A103	5,589,854	12/31/96	Tsai			
	A104	5,623,582	04/22/97	Rosenberg			
	A105	5,623,642	04/22/97	Katz et al.			
	A106	5,625,576	04/29/97	Massie et al.			
	A107	5,629,594	05/13/97	Jacobus et al.			
	A108	5,642,469	06/24/97	Hannaford et al.			
↓	A109	5,659,493	08/19/97	Kiridena, et al.			

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AC	A110	5,666,138	09/09/97	Culver			
	A111	5,691,898	11/25/97	Rosenberg <i>et al.</i>			
	A112	5,694,013	12/02/97	Stewart <i>et al.</i>			
	A113	5,701,140	12/23/97	Rosenberg <i>et al.</i>			
	A114	5,721,566	02/24/98	Rosenberg <i>et al.</i>			
	A115	5,724,264	03/03/98	Rosenberg <i>et al.</i>			
	A116	5,731,804	03/24/98	Rosenberg			
	A117	5,734,373	03/31/98	Rosenberg <i>et al.</i>			
	A118	5,737,505	04/07/98	Shaw <i>et al.</i>			
	A119	5,739,811	04/14/98	Rosenberg <i>et al.</i>			
	A120	5,742,278	04/21/98	Chen <i>et al.</i>			
	A121	5,751,289	05/12/98	Myers			
	A122	5,754,023	05/19/98	Roston <i>et al.</i>			
	A123	5,767,839	06/16/98	Rosenberg			
	A124	5,769,640	06/23/98	Jacobus <i>et al.</i>			
	A125	5,774,130	06/30/98	Horikawa, <i>et al.</i>			
	A126	5,784,542	07/21/98	Ohm <i>et al.</i>			
	A127	5,790,108	08/04/98	Salcudean <i>et al.</i>			
	A128	5,798,752	08/25/98	Buxton <i>et al.</i>			
	A129	5,800,177	09/01/98	Gillio			
	A130	5,800,178	09/01/98	Gillio			
	A131	5,800,179	09/01/98	Bailey			
	A132	5,802,353	09/01/98	Avila <i>et al.</i>			
	A133	5,803,738	09/08/98	Latham			
	A134	5,805,140	09/08/98	Rosenberg <i>et al.</i>			
	A135	5,821,920	10/13/98	Rosenberg <i>et al.</i>			
	A136	5,825,308	10/20/98	Rosenberg			
V	A137	5,828,197	10/27/98	Martin, <i>et al.</i>			

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AC	A138	5,831,408	11/03/98	Jacobus, <i>et al.</i>			
	A139	5,844,392	12/01/98	Peurach <i>et al.</i>			
	A140	5,847,956	12/08/98	Bronfeld, <i>et al.</i>			
	A141	5,859,934	01/12/99	Green			
	A142	5,872,438	02/16/99	Roston			
	A143	5,873,106	02/16/99	Joseph			
	A144	5,880,714	03/09/99	Rosenberg <i>et al.</i>			
	A145	5,881,178	03/1999	Tsykalov <i>et al.</i>			
	A146	5,882,206	06/16/99	Gillio			
	A147	5,889,670	03/30/99	Schuler <i>et al.</i>			
	A148	5,898,599	04/27/99	Massie, <i>et al.</i>			
	A149	5,903,270	05/11/1999	Gentry <i>et al.</i>			
	A150	5,903,456	05/11/99	Schena <i>et al.</i>			
	A151	5,903,886	05/11/99	Heimlich, <i>et al.</i>			
	A152	5,907,487	05/25/99	Rosenberg <i>et al.</i>			
	A153	5,913,727	06/22/99	Ahdoot			
	A154	5,929,607	07/27/99	Rosenberg <i>et al.</i>			
	A155	5,929,846	07/27/99	Rosenberg <i>et al.</i>			
	A156	5,956,484	09/21/99	Rosenberg <i>et al.</i>			
	A157	5,963,212	10/05/1999	Bakalash			
	A158	5,973,678	10/26/99	Stewart, <i>et al.</i>			
	A159	5,973,678	10/26/1999	Stewart			
	A160	5,988,862	11/23/99	Kacyra, <i>et al.</i>			
	A161	6,040,840	03/2000	Koshiba <i>et al.</i>			
	A162	6,061,004	05/2000	Rosenberg			
	A163	6,064,394	05/16/2000	Morrison			
	A164	6,084,587	07/04/00	Tarr <i>et al.</i>			
V	A165	6,111,577	08/29/00	Zilles <i>et al.</i>			

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AC	A166	6,131,097	10/10/00	Peurach <i>et al.</i>			
	A167	6,191,796 B1	02/20/01	Tarr			
	A168	6,211,848	04/03/01	Plesniak <i>et al.</i>			
	A169	6,219,032	04/2001	Rosenberg <i>et al.</i>			
	A170	6,226,003	05/01/01	Akeley			
	A171	6,308,144	10/23/01	Bronfeld <i>et al.</i>			
	A172	6,337,678 B1	01/20/02	Fish			
	A173	6,342,880 B2	01/20/02	Rosenberg <i>et al.</i>			
	A174	6,369,834	04/09/02	Zilles, <i>et al.</i>			
	A175	6,384,822 B1	05/07/2002	Bilodeau <i>et al.</i>			
	A176	6,405,158	06/11/2002	Massie <i>et al.</i>			
	A177	6,417,638	07/09/02	Guy, <i>et al.</i>			
	A178	6,421,048	07/16/02	Shih <i>et al.</i>			
	A179	6,552,722	04/22/03	Shih <i>et al.</i>			
	A180	6,608,631	08/19/2003	Milliron			
	A181	6,671,651	12/30/03	Goodwin <i>et al.</i>			
	A182	6,707,458	03/2004	Leather <i>et al.</i>			
	A183	6,792,398	9/14/2004	Handley <i>et al.</i>			
	A184	6,831,640	12/14/2004	Shih <i>et al.</i>			
	A185	6,853,965	2/8/2005	Massie <i>et al.</i>			
	A186	6,879,315	4/12/2005	Guy <i>et al.</i>			
	A187	6,958,752	10/25/2005	Jennings <i>et al.</i>			
	A188	6,985,133	1/10/2006	Rodomista <i>et al.</i>			
	A189	20020075283	06/20/02	Payne			
	A190	20020089500	07/11/02	Jennings, <i>et al.</i>			
	A191	2002/0154132	10/2002	Dumesny <i>et al.</i>			
	A192	20020158842	10/31/02	Guy, <i>et al.</i>			
	A193	20030128208	07/10/03	Shih, <i>et al.</i>			

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AC	A194	2003/0117411	06/26/2003	Fujiwara <i>et al.</i>					
↓	A195	2003/0191554	10/09/2003	Russell <i>et al.</i>					
↓	A196	2005/0060130	03/2005	Shapiro <i>et al.</i>					
↓	A197	2005/0062738	03/2005	Handley <i>et al.</i>					
↓	A198	2005/0168460	08/2005	Razdan <i>et al.</i>					
FOREIGN PATENT DOCUMENTS									
EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG (Y/N)
AC	B1	WO 95/02801	01/26/95	PCT					
↓	B2	WO 96/16397	05/30/96	PCT					
↓	B3	WO 96/22591	07/25/96	PCT					
↓	B4	WO 96/42078	12/27/96	PCT					
↓	B5	WO 97/06410	02/20/97	PCT					
↓	B6	WO 97/12337	04/03/97	PCT					
↓	B7	WO 97/12357	04/03/97	PCT					
↓	B8	WO 97/19440	05/29/97	PCT					
↓	B9	WO 97/21160	06/12/97	PCT					
↓	B10	WO 97/44775	11/27/97	PCT					
↓	B11	WO 98/06024	02/12/98	PCT					
↓	B12	WO 98/26342	06/18/98	PCT					
↓	B13	WO 98/30951	07/16/98	PCT					
↓	B14	WO 98/58308	12/23/98	PCT					
↓	B15	WO 98/58323	12/23/98	PCT					
↓	B16	WO 99/10872	03/04/99	PCT					
↓	B17	EP 0 915 434 A2	05/12/99	EP					
↓	B18	2389764	12/17/2003	GB					
↓	B19	2410351	07/27/2005	GB					

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OTHER ART, JOURNAL ARTICLES, ETC.			
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)		
AC	C1	Altmann, "About Nonuniform Rational B-Splines - NURBS," http://www.cs.wpi.edu/~mat/courses/cs563/talks/nurbs.html , printed 7/29/2003, 6 pgs.	
	C2	Apple Computer Inc., "OpenGL for Mac OS: Glossary," http://www.developer.apple.com/documentation/GraphicsImaging/Conceptual/OpenGL/glossary ... , printed August 2002, 3 pgs.	
	C3	Avid Technology, "Curves," printed 11/06/03, http://www.iro.umontreal.ca/~roys/softimage/html/model/curves.html , chapter 10, 19 pgs.	
	C4	Avid Technology, "Fundamentals of NURBS Modeling," printed 11/06/03, http://www.iro.umontreal.ca/~roys/softimage/html/model/nurbs_basics.html , chapter 9, 7 pgs.	
	C5	Avid Technology, "Surfaces," printed 11/06/03, http://www.iro.umontreal.ca/~roys/softimage/html/model/surfs.html , chapter 11, 22 pgs.	
	C6	Adachi, "Touch and Trace on the Free-Form Surface of Virtual Object," Proceedings of IEEE Virtual Reality Annual International Symposium, September 18-22, 1993, Seattle WA, pgs. 162-168.	
	C7	Agrawala <i>et al.</i> , "3D Painting on Scanned Surfaces", Stanford University, 1995, pgs 145-150.	
	C8	Barr, "Global and Local Deformations of Solid Primitives"; COMPUTER GRAPHICS; Vol. 18, No. 3, pgs. 21-30 (July, 1984).	
	C9	Bentley, "Rendering Cubic Bezier Patches," Worcester Polytechnic Institute, printed 11/17/03, http://www.cs.wpi.edu/~mat/courses/cs563/talks/surface/bez_surf.html , 10 pgs.	
	C10	Birn, "How to Model A Hairy Hippo Nose in Softimage 3D," http://www.3drender.com/jbirn/hippo/hairyhipponose.html , printed 7/29/03, 3 pgs.	
	C11	Birn, "Mental Ray Resources," http://www.3drender.com/ref/max.htm , printed 7/29/03, 4 pgs.	
	C12	Birn, "NurbsPatchHead.igs," http://www.turbosquid.com/HTMLClient/FullPreview/... printed 7/29/03, 1 pg.	
	C13	Birn, "Softimage's Surface Continuity Manager," http://www.3drender.com/ncf/index.html , printed 7/29/03, 2 pgs.	
	C14	Birn, "Tutorial: NURBS Head Modeling," printed 07/29/03, http://www.3drender.com/jbirn/ea/HeadModel.html , 5 pgs.	
	C15	Blinn, "Simulation of Wrinkled Surfaces," COMPUTER GRAPHICS, Volume 12-3, August 1978, pages 286-292.	
	C16	Brooks <i>et al.</i> , "Project GROPE - Haptic Displays for Scientific Visualization," COMPUTER GRAPHICS, Vol. 24, No. 4, August 1990, pgs. 177-185.	
	C17	Creating A Lathed NURBS Surface, http://www.maxhelp.com/content/tutorials/nurbs/nurbs.htm , printed 7/29/03, 3 pgs.	
	C18	CSB/SJU IT Services, "Color Depth and Color Spaces," http://www.csbsju.edu/itsevics/teaching/c_space/colors.htm , 9/12/03, 3 pgs.	
	C19	Decaudin, "Geometric Deformation by Merging a 3D-Object with a Simple Shape," Graphics Interface '96 Proceedings (Toronto, Canada), 6 pgs. (May 21-24, 1996).	
	C20	Digital Photography and Imaging Glossary, August 2000.	
✓	C21	Dworkin <i>et al.</i> , "A New Model for Efficient Dynamic," Fourth Eurographics Animation and Simulation Workshop Proceedings Eurographics Technical Report Series, ISSN 1017-4656, September 4-5, 1993, pp. 135-147.	
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AC	C22	Elhadj <i>et al.</i> , "Supermedia-Enhanced Internet-Based Telerobotics," Proceedings of the IEEE, Vol. 91, No. 3, pp. 396-421 (March 2003).
	C23	Farin, "NURBS," printed 11/17/03, www.eros.cagd.eas.asu.edu/~farin/rbook/toc.html , 2 pgs.
	C24	Fisher <i>et al.</i> , "Pixel Values," http://www.dai.ed.ac.uk/HIPR2/value.htm (1 pg.).
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